

Press release

**BIBKO® INFRA TEC – The innovative recycling system for waste quantities up to 4 m³/h**  
 Compact system for city combination vehicles, suction trailers and compact sweepers

The inspection and cleaning of sewers and pipelines with modern technology such as TV inspection and suction/flushing vehicles is state of the art today. Regular inspection and cleaning ensures that the wastewater can flow away safely. This helps to prevent unpleasant odours and blockages in the sewers.

Today, the cleaning of sewers and pipelines is mainly carried out with high pressure. In contrast to chemical cleaning, this method is much more environmentally friendly. Furthermore, this cleaning can be carried out without having to temporarily shut down the sewage system. The resulting sewer flushing material is collected and disposed of.

As with the cleaning of sewers and pipelines, cleaning with water has also proved its worth in the cleaning of streets. The resulting street sweepings are also collected and disposed of.



Compact recycling system IT-1500/1\_BW  
 Hopper: ground level

**Problem: Volume reduction**

The disposal costs are calculated according to the respective waste code and the disposal volume. The volume reduction of the waste and thus also the reduction of the disposal quantity thus play a major role.

Some of this reduction is already taking place in the vehicles. Nevertheless, there is still a certain amount of water in the remaining material, which influences the costs of disposal.

**Problem: Waste quantity**

Although decentralised recycling is becoming more and more important, a certain amount of waste per year is necessary for a recycling system to be economically viable. Since the recycling capacity of most systems available on the market is 10 m³/h and more, these systems can only be operated economically to a limited extent in companies with small quantities.



Compact recycling system IT-1500/1\_BW

**Solution: Recycling system IT-1500/1\_BW**

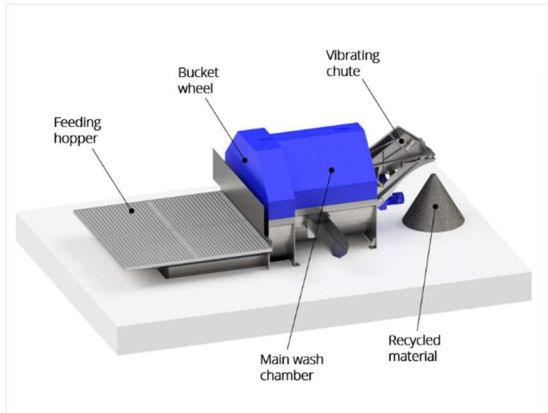
The innovative BIBKO® INFRA TEC-recycling system IT-1500/1-BW is a system that offers a solution to both the volume reduction problem and the waste quantity problem. With a mechanical capacity of 4 m³/h, it enables economic operation even with low waste quantities.

Recycling process

After the recycling system has been started via the restart button, the waste is fed via the feed hopper into the external bucket elevator. This bucket elevator feeds the material and the water it contains to the recycling machine.

In the recycling machine, the material enters the main washing chamber. In this chamber there is a water bath. A rotating spiral transports the material through the water bath and segregates it. At the same time, water flows through the chamber in countercurrent.

The unwanted components are washed out and drained off together with the excess process water.

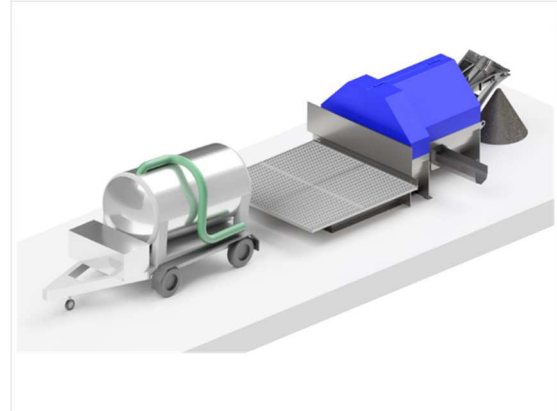


Compact recycling system IT-1500/1\_BW - Scheme

A second bucket elevator removes the washed material from the washing chamber and feeds it to the vibrating chute. The material is dewatered via this vibrating chute and conveyed into the material box.



Emptying vehicles with small quantities



Emptying of suction trailers

### Summary

The innovative **BIBKO® INFRA7EC**-recycling system type IT-1500/1\_BW is a system that is characterised by the following features:

- Economical solution for small quantities
- High degree of dewatering of the recycled material by means of a dewatering screen as a material outlet



Material discharge of recycled material

### Material flows

The following material flows are generated during this recycling process:



Mineralic components >250 µm  
 Use: Secondary raw material



Process water mit mineral components ≤250 µm/ impurities  
 Use: Treatment/  
 Discharge after analysis and approval

- Recycling solution for city combination vehicles, suction trailers and compact sweepers
- Compact design and thus low space requirement

Due to the features described above, the recycling system type IT-1500/1\_BW is an ideal solution for the problem of volume reduction and low waste quantity.

The recycling system can be supplemented with a fine particle separator, chamber filter press or decanter centrifuge to treat the resulting process water.